

ABSTRACT OF THE DISCLOSURE

BAUXITE DIGESTION METHOD TO IMPROVE THE FILTERABILITY OF
MUD AT THE EXIT FROM DIGESTION

Process for the treatment of bauxite (10) by alkaline digestion, typically using the Bayer process in order to obtain alumina hydrate, characterised in that ground bauxite (11, 15) is added directly into an alkaline solution (21a) that is drawn off and that will be reinserted into the Bayer aluminate liquor circuit (20), the said alkaline solution (21a) being heated at a temperature such that after the said ground bauxite (11, 15) and the said alkaline solution have been brought into contact, the temperature of the slurry resulting from this mix is greater than a temperature close to the boiling temperature at atmospheric pressure, in other words typically greater than 95°C and preferably greater than or equal to the boiling temperature at atmospheric pressure.

FIGURE 1

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